

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)	
Joachim Henssler)	Group:
Serial No.:)	
Filed: August 27, 2003)	Examiner:
Title: METHOD AND DEVICE FOR THE)	
IMPROVEMENT OF THE PROPERTIES OF A)	
FIBER MATERIAL WEB PRODUCED IN A)	
SHEET FORMING DEVICE)	

INFORMATION DISCLOSURE STATEMENT

MS DD
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Sir:

Applicant wishes to bring to the attention of the Examiner the documents identified on the attached form PTO-1449. Applicant respectfully requests that these documents be made of record in the present application.

A copy of each of the documents is enclosed.

Patent Document Nos. DE 197 04 740 and DE 297 14 908 are each discussed in the specification of the present application.

German Patent Document DD 289 069 relates to a roll that is capable of feeding energy in the form of impulses into a watery fiber stock suspension on a continuously moving wire. The objective of the invention is to create a homogeneous fiber stock suspension.

German Patent Document 1 095 103 discloses a suction box for a fourdriner paper machine (endless wire paper machine) whose cover is equipped with cross slots that are directed transversely downward in direction of travel of the wire running over said suction box, characterized in that at least one of the strips (8, 8a, 8b...) that are formed between the slots (12) in the cover is equipped with a component (5 or 11) that drops off in a straight line toward the back edge of the strip, thereby forming an angle with the wire (1) of not more than 5°, measured during machine standstill.

German Patent Document 658514 discloses a suction roll for paper machines consisting of a roll core (1) on whose circumference resilient plates (2) are mounted.

Prior art document 355 412 discloses a device for dewatering of paper fiber stock, comprising a number of suction couch rolls whose longitudinal sides are aligned parallel to each other, whereby each is covered by a flat and horizontally positioned screen plate; also comprising deckle sides that are conspiring together with the screen plate and that are adjustable in longitudinal direction of the boxes. One suction nozzle is provided in each of the face area of the suction box, whereby one each is lockable and the other can be connected on the suction piping that runs parallel to the adjacent faces of the suction boxes, characterized in that the two faces (17, 18) of the suction boxes (10) are equipped with openings (19) in the floor area. ON the outside of the face in this area, easily detachable pipe flanges (24, 25) are provided that comprise flanges (28) and connecting sleeves (29) which are equipped with outside threads. Sealing cap (31) can be screwed onto one of these and half of the claw couplings (30) that can be coupled to the sleeves of the suction piping can be screwed onto the opposite other one.

German Patent Document 197 30 232 teaches a method for producing fibrous webs, preferably of paper or card, the quality of said fibrous webs can be significantly improved by adding a hydrodynamic suspension shaking process in the sheet-forming part of the production line. The effects of the inventive method are particularly evident in the formation, the longitudinal/transversal strength ration and from the reduction or elimination of known disadvantageous hydraulic streaks. The invention also relates to devices for achieving hydrodynamic suspension shaking. The invention devices are capable of shaking frequencies which are almost a power of ten higher than those reached with mechanical shaking devices, and are consequently in an effective range.

German Patent Document De 199 46 984 teach the extraction of water from a wet web (12), of paper or cardboard, it is passed through a water extraction zone (E) which is divided into a number of sections (E1-E3) in succession on the direction of a web travel (L). Each section has an individually set gas pressure. For the extraction of water from a wet paper/cardboard web, the web is passed through the water extraction zone together with a membrane (16). Gas pressure (14) are applied to the membrane, to displace it against the web. The web is supported by a blanket (18) through the water extraction zone, on the opposite side of the web to the membrane. The leading water extraction section has a lower gas pressure than in the following section. The final section has a low gas pressure, to maintain the relatively high web volume. An independent claim is included for an assembly to extract water from a wet paper/cardboard web, whjere the web is carried through a water extraction zone with sections of individually set gas pressures to bear against a membrane on one side of the web. A blanket moves through the zone with the web, at its underside.

German Patent Document DE 101 50 951 teaches the improvement of the characteristics of at least one fiber suspension, as the pulp for the production of a paper or cardboard or tissue web, the stock inlet has a turbulence generator so that the suspension flow is given at least one movement component across the machine line at the latest before it emerges from the stock inlet. This improves the web quality and increases the lateral strength. To improve the quality of a fiber web, the lateral suspension flow component is developed at the turbulence generator (5) and/or the stock inlet delivery jet. The lateral flow components cancel out against each other in the sum. An independent claim is included for a stock inlet and turbulence generator with a number of flow channels in rows and columns.

In the event Applicant has overlooked the need for a payment of fee, or additional payment of fee, or have overpaid a fee, Applicant hereby conditionally petitions therefor and authorizes that any charges or credits be made to Deposit Account No. 20-0095, TAYLOR & AUST, P.C.

Respectfully submitted,

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Attorney for Applicant

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on: August 27, 2003.

Todd T. Taylor, Reg. No. 36,945

NAME OF REGISTERED REPRESENTATIVE

SIGNATURE

August 27, 2003

DATE

		ATTORNEY DOCKET NO.: VOI0272.US	SERIAL NO:
INFORMATION DISCLOSURE STATEMENT		APPLICANT: Joachim Henssler	
		FILING DATE: August 27, 2003	GROUP:

U.S PATENT DOCUMENTS

Examiner Initial *		Document No.	Date	Name	Class	Subclass	Filing Date
	AA	6,173,831	1/2001	Grabscheid, et al.	198	844.1	May 19, 1999
	AB	5,681,430	10/1997	Neun et al.	162	355	August 23, 1995
	AC	5,306,394	4/1994	Meinander	162	209	January 5, 1993
	AD	5,562,807	10/1996	Baluha	162	352	March 3, 1995
	AE	4,425,188	1/1984	Fujiwara	162	300	March 15, 1982
	AF	4,306,934	12/1981	Seppanen	162	209	January 24, 1980
	AG	3,775,244	11/1973	Hubschmann	162	351	October 14, 1971
	AH	3,594,487	12/1970	Clark	162	356	January 12, 1967
	AI	1,917,098	7/1933	Corfin			February 2, 1932
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

							Translation	
		Document No.	Date	Country	Class	Subclass	Yes	No
	AL	PCT/EP00/05597	12/2000	PCT	D21F	1/48		X
	AM	DD 289 069	10/1983	Germany	D21F	1/20		X
	AN	1 095 103	12/1956	Germany				X
	AO	658 514	4/1937	Germany				X
	AP	AT 355 412	8/1976	Austria	D21F	1/52		X

OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

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*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AA						
	AB						
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	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

							Translation	
		Document No.	Date	Country	Class	Subclass	Yes	No
	AL	DE29714908	11/1997	Germany	D21F	1/06		X
	AM	DE19730232	1/1999	Germany	D21F	1/18		X
	AN	DE19946984	4/2001	Germany	F26B	13/24		X
	AO	DE10150951	2/2002	Germany	D21F	1/02		X
	AP							

OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

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